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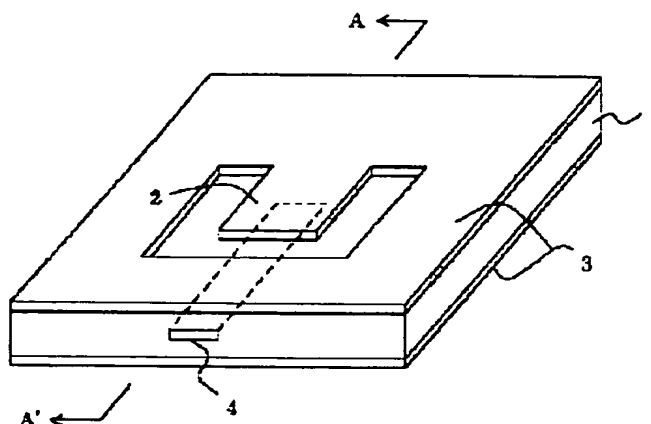
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APPLICANT : SANYO ELECTRIC CO LTD;

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TITLE : MICROWAVE ANTENNA



ABSTRACT : PURPOSE: To reduce the size of a radiation conductor compared with a both-end opened type microwave antenna of conventional triplate structure.

CONSTITUTION: A radiation conductor 2 as a patch antenna 15 formed on the upper surface of a dielectric base 1 and ground conductors 3 are formed on the periphery and lower face of the conductor 2. The conductor 2 is separated from the conductors 3 by a U-shaped slit S. A feeding line 4 is embedded in the base 1 to constitute triplate structure. The head of the line 4 is opened at the tip and inserted up to the position superposed to the part of the conductor 2. The conductor 2 is excited by electromagnetic connection with the line 4. The opposite side part to the feeding line side of the conductor 2 through a zero potential part N in which the potential of a reference mode becomes zero is removed and the whole zero potential part N is short-circuited with the conductors 3. The length of the side of the conductor 2 which is parallel with the line 4 is $\lambda/4$.

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